



COWLITZ INDIAN TRIBE

Cowlitz Resort Casino

Meeting with EPA 11/19/15 – Rule Authorization Discussion Points

- Injection Well Registration
 - Registered on 9/22/15 – Confirmed 9/23/15
 - Tribe Can begin Construction after submittal of the inventory – 144.83 (a) (1)
- Injectate
 - Treatment System includes eight parts
 1. Best Management Practices at Casino
 2. FOG Removal at Source
 3. Headworks – Screen and Future Grit Removal
 4. Anoxic Zone – Nitrogen removal below 10 mg/l (primary MCL)
 5. Aeration Basin – Biological treatment
 6. Membrane Bioreactor Basin – Micro Filtration
 7. Disinfection
 - Ultraviolet Disinfection
 - Chemical Disinfection – Sodium Hypochlorite / Chloramine
 8. Vadose Zone filtration
 - 120' of unsaturated soils
 - Sample locations
 1. End of WRP process
 2. Individual well heads
 3. Monitoring well under injection wells and north edge of property
- Vadose Zone Injection
 - Testing for primary drinking water standards
 1. Plant – 1/4ly first year, semi-annually after
 2. Monitoring Well Under Well Field – Semi-annually first two years beginning six months after operations. Annually after
 3. Monitoring Well North Edge of Property – Annual beginning in the third year of operation
 4. Monitoring Well Upgradient - As needed for background water quality.
 - Testing for Chlorine Residual - .5 mg/L minimum reuse requirement
 1. Plant – At the end of reclaimed water storage tank.
 2. Well Heads – Grab sample on active wells
 3. Monitoring Well Under Well Field – Disinfection by products (DBP)
- Operation and Maintenance Manual (Request for Operations Plan)
 - Sampling and Laboratory Procedures Chapter to be provided with response to EPA

- Complete Operation and Maintenance Manual may be provided at 50% completion of plant – What does EPA really want / need?
- **Plans and Specifications for WRP**
 - Requested in September 4, 2015 Letter
 - 90% Submittal
 - Review Process / Time
- **Government to Government Response**
 - Points to be included in Tribes Response
 - Anticipated Response from EPA / Response Time

Parametrix

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